



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

**MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION**

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American Hydrotech, Inc.
303 East Ohio Street Suite 2700
Chicago, IL 60611

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: American Hydrotech Roofing Systems over Concrete Deck.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 07-0213.02 and consists of pages 1 through 5.

The submitted documentation was reviewed by Jorge L. Acebo.



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Expiration Date: 06/27/17
Approval Date: 07/04/13
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ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Liquid Applied Membrane
Deck Type: Concrete
Material: Hot Rubberized Asphalt
Maximum Design Pressure: -160 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
MM6125	Available in 50 or 500 lb. Drums	CGSB-37.50-M89	Single component, rubberized asphalt compound.
Surface Conditioner	5 gal or 55 gal	ASTM D41	Single component, asphalt modified solvent base primer for concrete surfaces.
Flex-Flash UN	60 mils thick 6", 12", 18", 36" x 50' & 100' rolls	Proprietary	Uncured neoprene flashing, for exposed applications.
Hydrocap 160	0.160" x 39.76" x 33.5'	ASTM D6162	Polyester reinforced, heavy duty, roll rubberized asphalt protection/cap sheet with a ceramic granular surface.
Flex Flash MB	0.160" x 39.76" x 33.5' roll	ASTM D6223	Modified bitumen sheet flashing for exposed applications.

TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer (With current NOA)</u>
Reemay 2016	6", 12", 39" x 360' & 600' rolls	ASTM D5726	Spun-bonded polyester fabric reinforcement.	Fiberweb Inc.

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Specification</u>	<u>Date</u>
Intertek	3183070COQ-005	CAN/CGSB 37.50-M89	11/03/09
Factory Mutual Research	3003756	Class 4470	04/10/00
IRT of South Florida	00003-8	TAS 114	05/12/00
PRI Construction Materials	MBT-008-02-02	ASTM D6162	06/03/13
Technologies LLC	AMHT-001-02-01	ASTM D41	11/13/12
Trinity ERD	P20080.09.10-2	ASTM D6223	09/09/10
	P20080.09.10-4	ASTM D6223	09/09/10



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APPROVED ASSEMBLIES:

Deck Type 3: Concrete

Deck Description: 2500 psi structural concrete or concrete plank

System Types F: MM 6125, Reinforced or un-reinforced systems

All General and System Limitations apply.

Substrate

Preparation:

All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of unapproved curing compounds, form release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.

The substrate shall be cleaned to remove loose debris. Apply the surface conditioner to the concrete using a hand held sprayer evenly at a rate of 300 to 600 SF/gallon (7.4 - 14.7 m²/L) depending on surface texture. Surface conditioner should "tan" the surface, not blacken it. Allow sufficient time for the surface conditioner to thoroughly dry prior to the membrane application. A final check of the substrate must be made to determine that the substrate has been properly cleaned and a test patch of Monolithic Membrane 6125 shall be applied to the surface to check adhesion. Apply 6" wide strips of Flex-Flash UN or Reemay 2016 at the junction of all vertical and horizontal surfaces, changes in plane and expansion joints.

Concrete around drain shall be depressed to promote positive water drainage.

Membrane

Flashing:

All prepared cracks, expansion joints, base flashings, penetrations and junctures at horizontal/vertical changes in plane shall be primed and flashed with MM 6125 Hot Applied Liquid Membrane prior to the application of the field membrane.

All cracks greater than $\frac{1}{16}$ " wide shall be covered with Flex-Flash UN or Reemay 2016 reinforcement fabric in 6" minimum width strips

Expansion joints, Flex-Flash UN shall be installed in accordance with manufacturer's published literature.

Apply one sheet Flex-Flash UN extending 6 inches beyond the drain flange on all sides and secured by the clamping ring to the drain. Drain must be maintained free to weep at membrane level.

Base Coat:

Membrane shall be applied at a rate to provide a continuous monolithic coat of 90-mil minimum.

Reinforcement:

Embed a layer of Reemay 2016 reinforcing fabric into the applied MM 6125 membrane while it is still hot. Overlap reinforcing fabric 2 inches with membrane between sheets.

Top Coat:

Apply a continuous monolithic coat of MM 6125 membrane at a minimum thickness of 125 mil over the reinforcement sheets. Total membrane thickness for reinforced systems shall not be less than 215 mils thick.

Cap Sheet:

Apply a layer of Hydrocap 160 into the MM 6125 membrane while it is still hot.

Maximum Design

Pressure:

-160 psf (See General Limitation #9)



MANUFACTURER'S REQUIREMENTS:

1. All work shall be performed by a Contractor licensed to do roofing/waterproofing work in Miami-Dade County. Contractor shall be familiar with the details and shall be approved by American Hydrotech, Inc. American Hydrotech, Inc., Hot Applied Liquid Membrane Systems shall be installed solely by approved applicators and only with installation and heating equipment approved by American Hydrotech, Inc.
2. Contractor shall submit to the Building Official for review the system specifications and details. Submission of these documents, as well as the proper application and installation of all materials shall be the sole responsibility of the contractor.
3. Flashings shall be installed according to the manufacturers published standard details, specific details, approved by American Hydrotech, Inc., shall be submitted to the Building Official for review.
4. American Hydrotech, Inc., Hot Applied Liquid Membrane Systems shall not be exposed to the weather and shall be protected by a protection sheet or other approved protection method from traffic.
5. American Hydrotech, Inc., Hot Applied Liquid Membrane Systems shall not be installed without consultation with American Hydrotech, Inc., if ambient or surface temperature is below 0°F. Do not apply to wet or frozen concrete surface.
6. American Hydrotech, Inc., Hot Applied Liquid Membrane Systems shall not be installed over lightweight insulating concrete.

CONCRETE DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer.
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt and/or adhesives panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.

5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant
(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).
(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



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